

Title (en)
LED illumination fixture

Title (de)
LED-Beleuchtungsbefestigung

Title (fr)
Appareil d'éclairage à DEL

Publication
EP 2213932 A1 20100804 (EN)

Application
EP 10000706 A 20100125

Priority
JP 2009020697 A 20090130

Abstract (en)
[Object] To reduce the influence of radiation heat from an LED unit 2 to a power source unit 4 in an LED illumination fixture with an integrated power source unit. [Means for Settlement] An LED illumination fixture includes an LED unit 2 with LEDs 2a to 2h mounted on a mounting substrate 21, a heat dissipating part 7 for dissipating heat generated in the LED unit 2, a metal plate 6 attached to the heat dissipating part 7, and a power source unit 4 attached to the metal plate 6. The power source unit 4 has a plurality of switching power sources each having a same configuration by which an input filter circuit 3 and a rectifier circuit DB are shared. Each of the switching power sources may be realized by a step-down chopper circuit or a step-up/step-down chopper circuit.

IPC 8 full level
F21S 8/02 (2006.01); **F21V 23/00** (2015.01); **F21V 23/04** (2006.01); **F21V 29/00** (2015.01); **F21V 29/71** (2015.01); **F21V 29/89** (2015.01); **H05B 33/08** (2006.01); **H05B 44/00** (2022.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)
F21S 8/02 (2013.01 - EP); **F21S 8/026** (2013.01 - EP); **F21V 23/00** (2013.01 - EP); **F21V 23/04** (2013.01 - EP); **F21V 29/507** (2015.01 - EP US); **F21V 29/71** (2015.01 - EP); **F21V 29/74** (2015.01 - EP US); **F21V 29/89** (2015.01 - EP); **H05B 45/355** (2020.01 - EP US); **H05B 45/375** (2020.01 - EP US); **H05B 45/40** (2020.01 - EP); **H05B 45/56** (2020.01 - EP); **F21Y 2115/10** (2016.07 - EP US); **H05B 45/38** (2020.01 - EP US); **H05B 45/385** (2020.01 - EP US); **Y02B 20/30** (2013.01 - EP)

Citation (applicant)
JP 2004055800 A 20040219 - MATSUSHITA ELECTRIC WORKS LTD

Citation (search report)

- [X] US 2006262545 A1 20061123 - PIEPGRAS COLIN [US], et al
- [A] GB 2349942 A 20001115 - HATHERLEY ALAN EDGAR [GB]
- [A] DE 202004001177 U1 20040415 - WISAM ENTPR CO [TW]

Cited by
EP2693843A1; CN103267253A; CN103097806A; DE102015106268A1; US9089033B2; US9967928B2; US9350248B2; US8829800B2; US9125264B2; WO2012047502A1; WO2014039676A1; US8388166B2; US8608335B2; US8890414B2; US9686477B2; US10348974B2; TWI411744B; WO2012135640A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2213932 A1 20100804; EP 2213932 B1 20160420; JP 2010177131 A 20100812; JP 5735728 B2 20150617

DOCDB simple family (application)
EP 10000706 A 20100125; JP 2009020697 A 20090130